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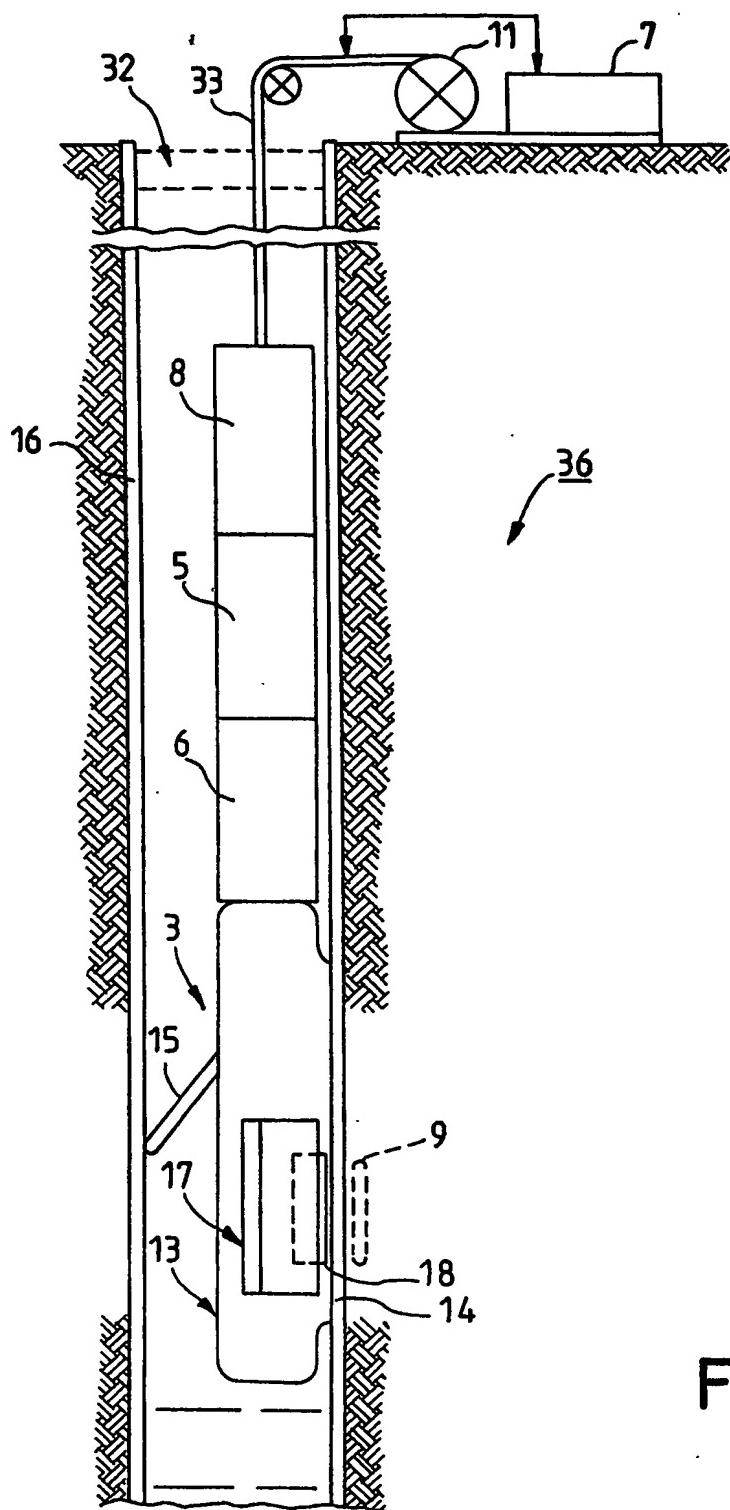


FIG.1

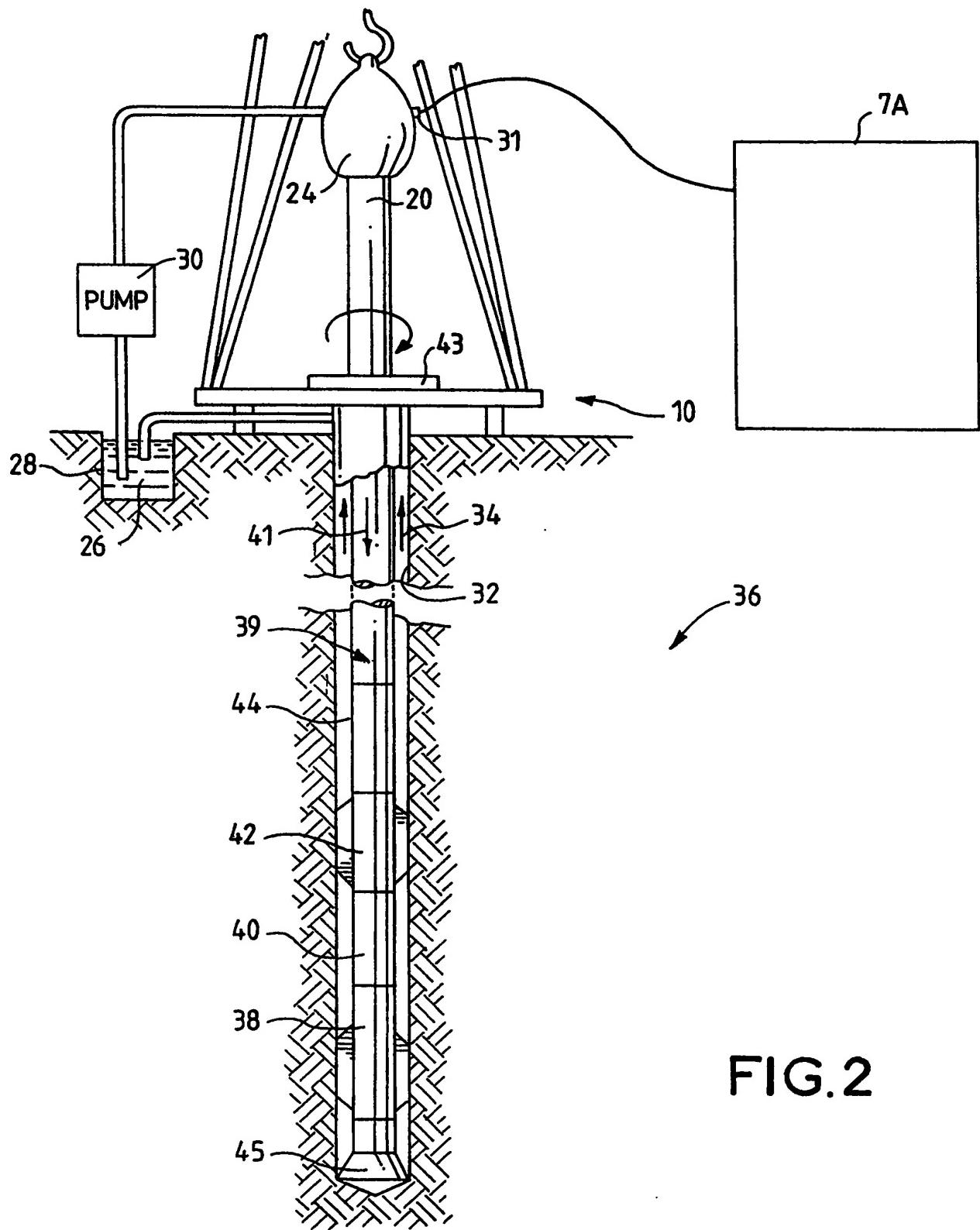


FIG. 2

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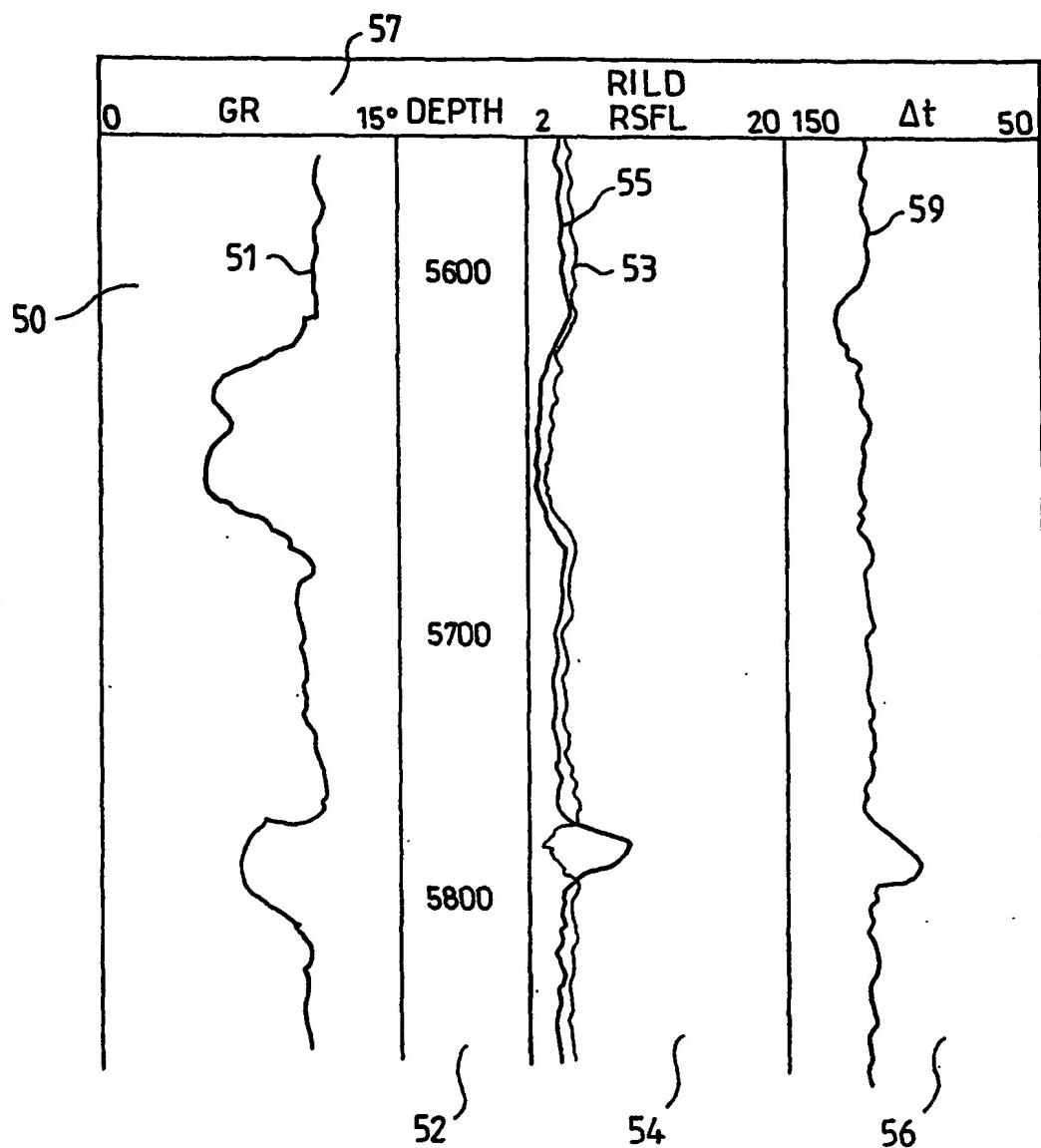


FIG.3
(PRIOR ART)

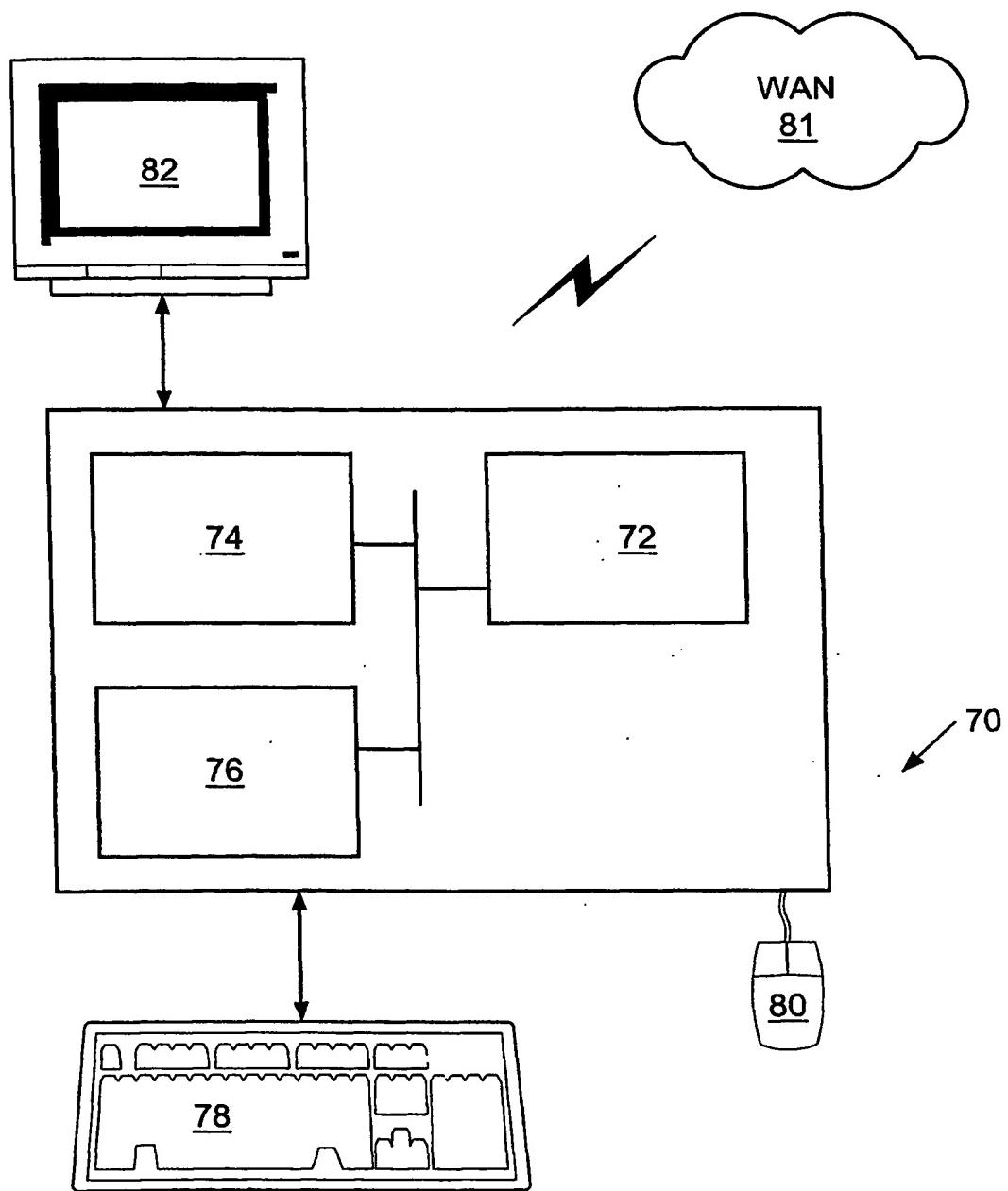


FIG. 4
(PRIOR ART)

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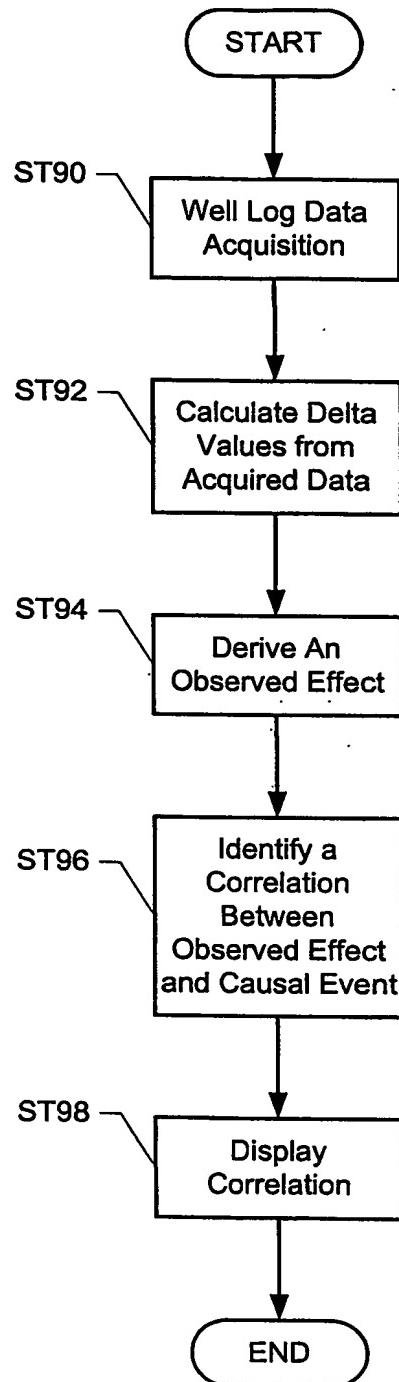


FIG. 5

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Observed Effect		Change observed in:					
102		104					
Gamma Ray	O <u>108</u>	N <u>110</u>	O <u>112</u>	N <u>114</u>	O <u>116</u>	O <u>118</u>	O <u>120</u>
Resistivity	N <u>126</u>	O <u>128</u>	N <u>130</u>	O <u>132</u>	O <u>134</u>	O <u>136</u>	P <u>138</u>
Neutron	O <u>144</u>	N <u>146</u>	N <u>148</u>	O <u>150</u>	O <u>152</u>	O <u>154</u>	O <u>156</u>
Density and PEF	O <u>162</u>	N <u>164</u>	N <u>166</u>	N <u>168</u>	O <u>170</u>	O <u>172</u>	O <u>174</u>
Ultrasonic Caliper	O <u>180</u>	N <u>182</u>	N <u>184</u>	N <u>186</u>	P <u>188</u>	O <u>190</u>	N <u>192</u>
Sigma	O <u>198</u>	N <u>200</u>	N <u>202</u>	O <u>204</u>	O <u>206</u>	O <u>208</u>	O <u>210</u>
102		104					
Change in mud weight/type/composition		Change in mud resistivity/measurement					
Pressure, ECD, mud history		Change in the background correction to formation fracture breakout					
Mud resistivity measurement		Temperature measurement to hole enlargement measurement					
Change in formation activation		Change in formation fracture fracture					
Change in mud density in the backgroud measurement		Change in temperature measurement to hole enlargement					
Formation activation measurement		Caliper measurement to formation fracture					
Change in formation activation		Depth pressure/ECD history/resistivity					
Formation activation measurement		Invasion depth / profile					
Formation activation measurement		Azimuthal measurement (if azimuthal profile available)					
Formation activation measurement		Cuttings buildup drilling torque and pressure history					
Formation activation measurement		O <u>124</u>					

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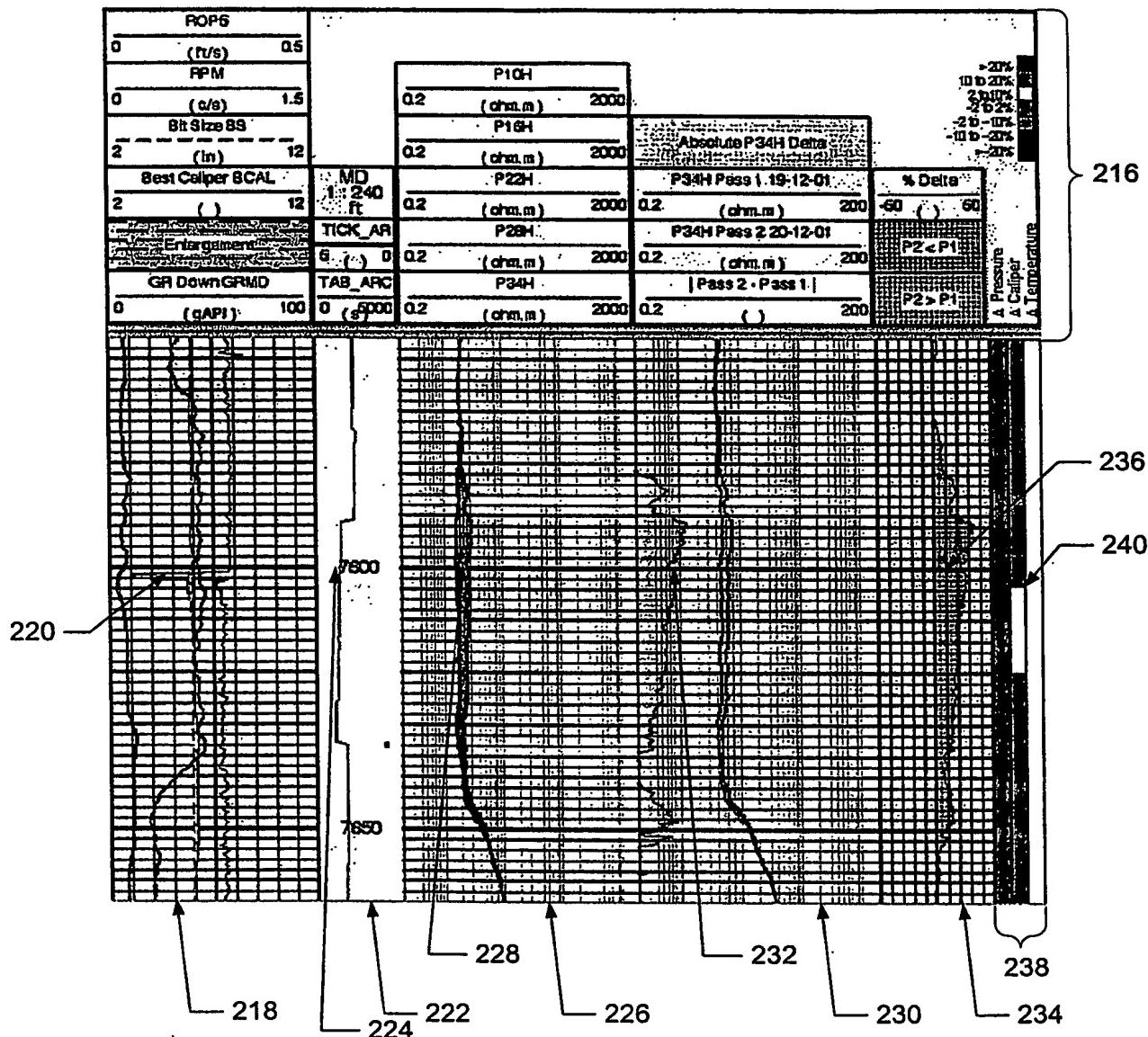


FIG. 7

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